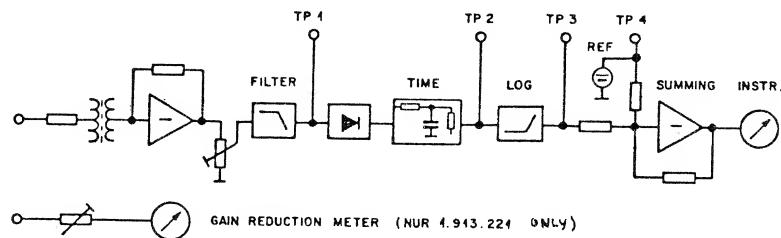
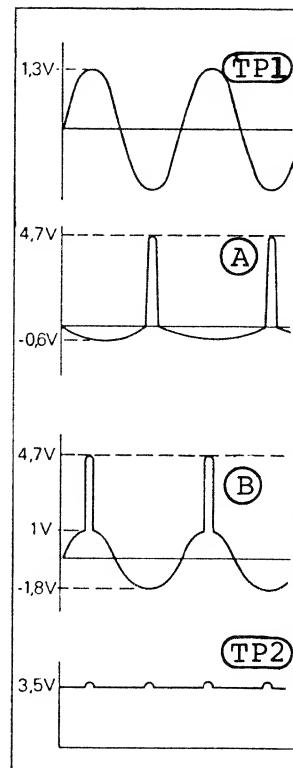
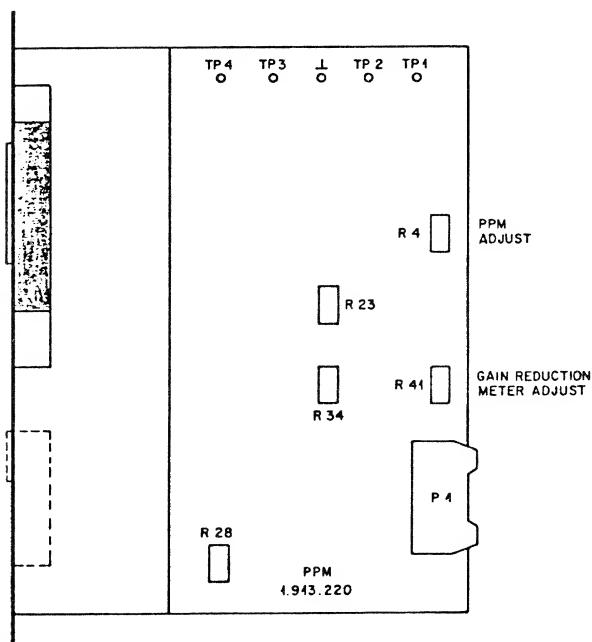


PEAK PROGRAM METER

Aussteuerungsmesser mit symmetrisch, erdfreiem Eingang. Dynamisches Verhalten gemäss IEC / DIN Normen.

BlockschaltbildPEAK PROGRAM METER

Level indicator with balanced and floating input. Dynamic response according to IEC / DIN standards.

Block DiagramAbgleich

- 1) Leistungspegel + 6 ... + 15 dB 1 kHz am Eingang.
- 2) + 3,5 V an TP2 mit R4 (Pegel PPM)
- 3) 0 dB am Instrument mit R28
- 4) - 30 dB am Instrument mit R34
- 5) - 40 dB am Instrument mit R23

Calibration

- 1) Line level +6 ... +15 dB 1 kHz at input
- 2) +3.5 V at TP2, adjust with R4 (Level PPM)
- 3) 0 dB at instrument adjust with R28
- 4) -30 dB at instrument adjust with R34
- 5) -40 dB at instrument adjust with R23

Die mechanische Nullstellung des Messwerkes liegt bei Referenzanzeige 0 dB. Für Pegel, deren Anzeige 0 ... +6 dB ergibt, wechselt die Polarität der Ausgangsspannung am Verstärker 4.2.

The mechanical zero position of the instrument corresponds to the reference indication 0 dB. For levels which give a deflection of 0 ... +6 dB on the scale, the amplifier 4.2 changes the polarity of the output voltage.

TECHNISCHE DATEN

Eingangsempfindlichkeit für Referenzanzeige (0 dB):
+ 6 dBu ... + 15 dBu
Eingangsimpedanz > 10 kOhm

Anzeigebereich:
- 40 dB ... + 6 dB

Genauigkeit bei 20° C, 1 kHz
- 40 dB ... + 6 dB: $\pm 0,5$ dB

Frequenzgang bei Referenzanzeige 0° C ... 50° C,
31,5 Hz ... 15 kHz: $\pm 0,5$ dB

Temperatureinfluss bei Referenzanzeige, 1 kHz,
0° C ... 50° C: Fehler 0,5 dB

Dynamisches Verhalten:

Überschwingen: ≤ 1 dB

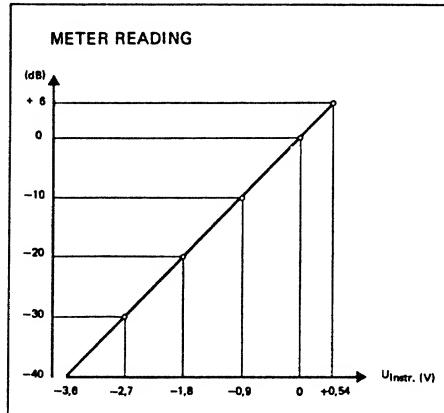
Ansprechzeit auf
- 1 dB $\pm 0,5$ dB: 10 ms
- 4 dB ± 1 dB: 3 ms

Rücklaufzeit 0 ... -20 dB: 1,7 s $\pm 0,3$ s

Stromaufnahme bei ± 15 V: Ca 15 mA

MECHANISCHE DATEN

Frontplatte dunkelgrau gespritzt	170 x 80 mm
Abmessungen Frontplatte	
Tiefe	135 mm
Gewicht	360 gr



SPECIFICATIONS

Input sensitivity for reference indication (0 dB):
+6 dBu ... +15 dBu
Input impedance >10 kOhm

Indicating range
-40 dB ... +6 dB

Accuracy at 20° C, 1 kHz
-40 dB ... +6 dB: $\pm 0,5$ dB

Frequency response at reference indication
0° C ... 50° C
31,5 Hz ... 15 kHz: $\pm 0,5$ dB

Influence of temperature at reference indication,
1 kHz 0° C ... 50° C: error 0,5 dB

Dynamic response:

Overswing: 1 dB

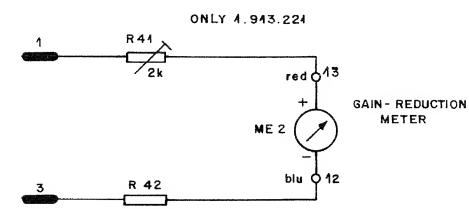
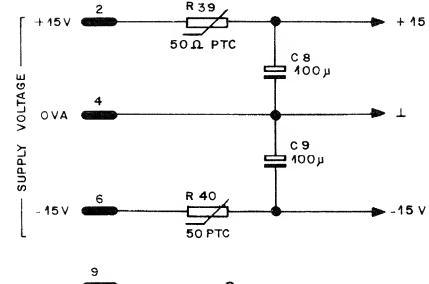
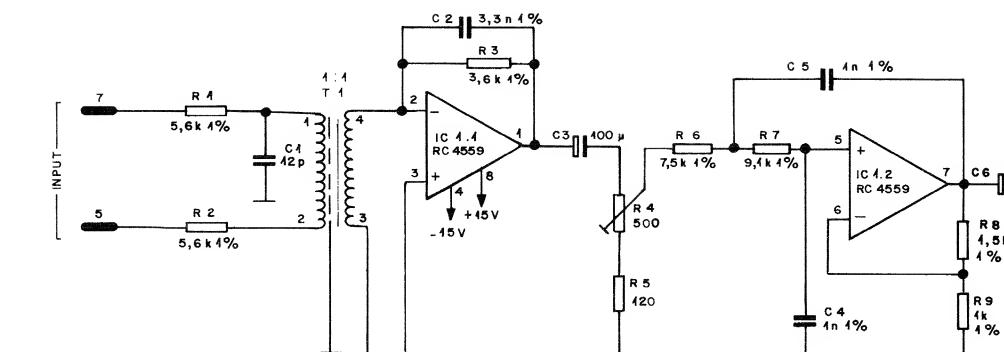
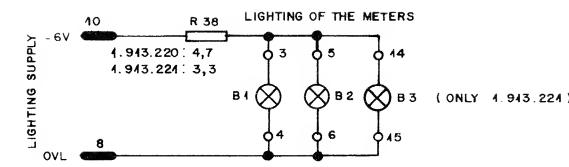
Attack time to
-1 dB $\pm 0,5$ dB: 10 ms
-4 dB ± 1 dB: 3 ms

Return time 0 ... -20 dB: 1,7 s $\pm 0,3$ s

Connected load at ± 15 V: approx. 15 mA

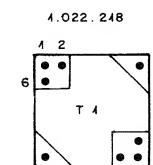
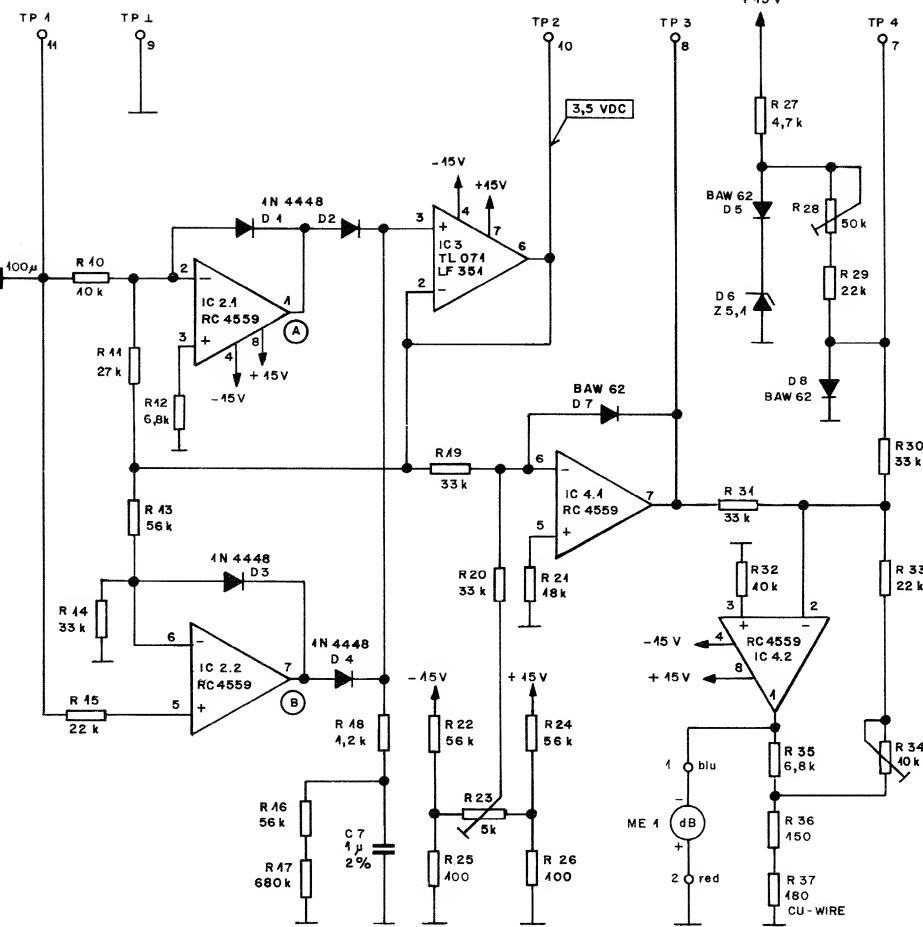
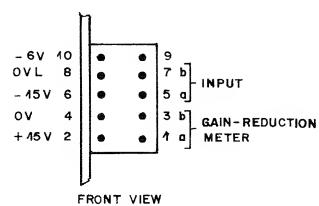
PHYSICAL DATA

Front panel lacquered charcoal grey	170 x 80 mm
Dimensions of front panel	
Depth	135 mm
Weight	360 g



ADJUSTMENT :

1. 3,5 V DC AT TP 2 - R 4
2. 0 dB AT ME 4 - R 28
3. -30 dB AT ME 1 - R 34
4. -40 dB AT ME 1 - R 23



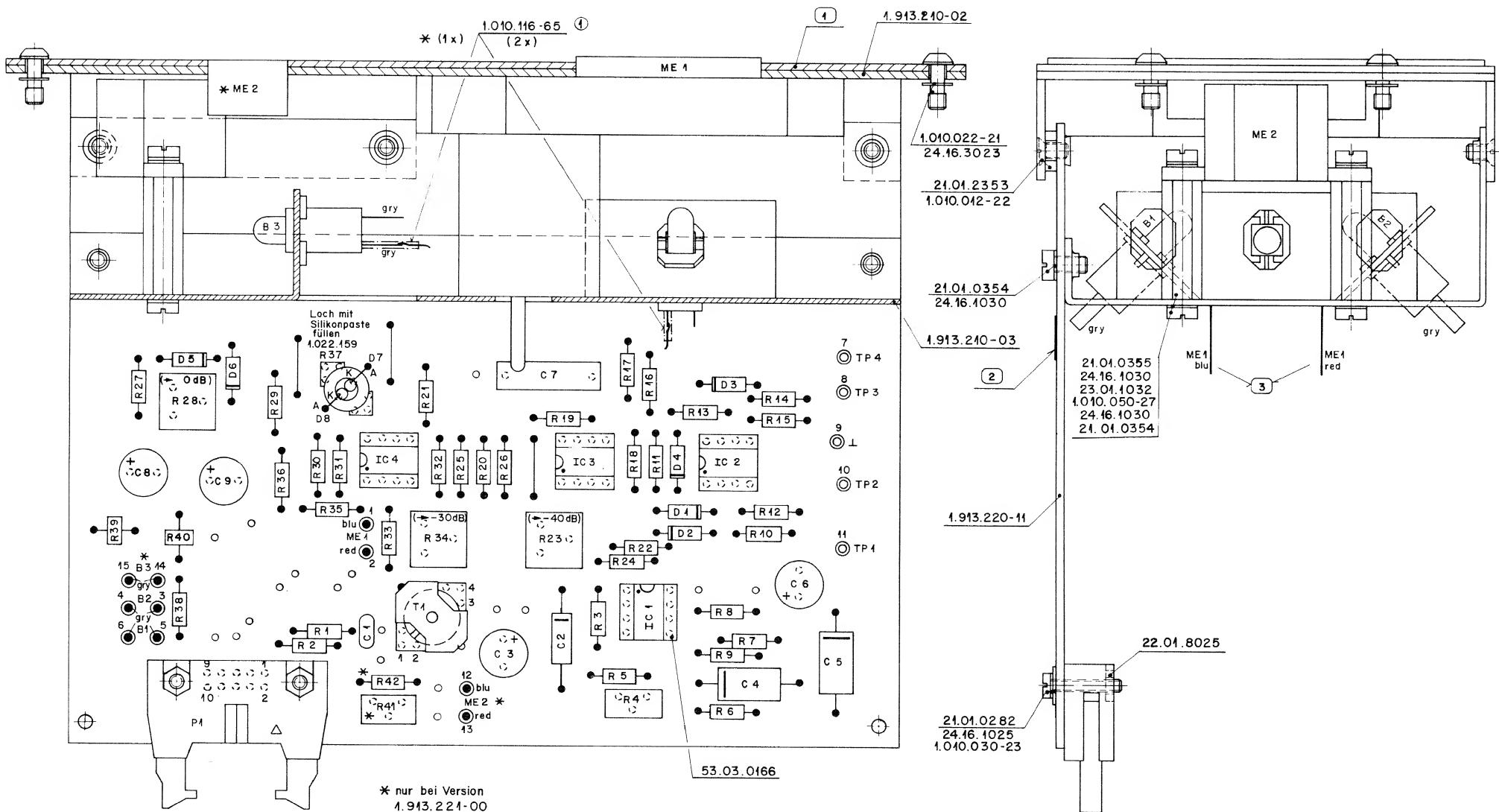
IC 4.2, 3, 4



DATE	24.10.82		
SIGN	Mig		
RECEIVED BY:			
ZURICH			

PEAK PROGRAMME METER

SC 4.943.220/221



Gültig für :	(1)	(2)	(3)
1.913.220-00	1.913.210-04	1.913.220-04	1.913.210-93
1.913.221-00	1.913.221-04	1.913.221-04	1.913.221-93

Werkstoff	Norm-Nr	Oberfläche	Gute
DIN-Bez		Beh.	
Abmessung			
Zugehörige Unterlagen:	Freimasstoleranz	Maßstab	Änderung
PL	-	2:1	1012.84 A.Ho my Vr
Ersatz für:	Ersetzt durch		Ausgabe
STUDER	Bemerkung		1.2.83 A.Ho my Vr
REGENSDORF			Datum
ZÜRICH			Gez
			Gepr
			Ges
			Index
			Kopie für
			Nummer
			1.913.220-00

INDI	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
C1	59.34.1120	12pF	5%		
C2	59.12.7332	3,3nF	1%		
C3	59.22.5101	100µF	16V		
C4	59.12.9102	1 nF	1%		
C5	59.12.9102	1 nF	1%		
C6	59.22.5101	100µF	16V		
C7	59.99.0508	1 µF	2%		
C8	59.22.5101	100µF	16V		
C9	59.22.5101	100µF	16V		
D1	50.04.0125	1N4448		any	
D2	50.04.0125	1N4448		any	
D3	50.04.0125	1N4448		any	
D4	50.04.0125	1N4448		any	
D5	50.04.0132	BAW62		only PH	
D6	50.04.0132	ZPD5.1	5,1V at 5mA, 5%	ITT	
D7	50.04.0132	BAW62		only PH	
D8	50.04.0132	BAW62		only PH	
IC1	50.09.0107	RC4559NB		RA, TI	
IC2	50.09.0107	RC4559NB		RA, TI	
IC3	50.09.0103	TL071CP	LF351N	TI, N	
IC4	50.09.0107	RC4559NB		RA, TI	
ME1	1.913.001.01		Peak Programme Meter		
ME2	1.169.900.02		Gain-Reduction-Meter (only 1.913.221)		

INDI	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
R1	57.11.3562	5,6k	1%		
R2	57.11.3562	5,6k	1%		
R3	57.11.3362	3,6k	1%		
R4	58.04.7501	500	TRIM		
R5	57.11.4121	120			
R6	57.11.3752	7,5k	1%		
R7	57.11.3912	9,1k	1%		
R8	57.11.3152	1,5k	1%		
R9	57.11.3102	1k	1%		
R10	57.11.4103	10k			
R11	57.11.4273	27k			
R12	57.11.4682	6,8k			
R13	57.11.4563	56k			
R14	57.11.4333	33k			
R15	57.11.4223	22k			
R16	57.11.4563	56k			
R17	57.11.4684	680k	2%		
R18	57.11.4122	1,2k			
R19	57.11.4333	33k			
R20	57.11.4333	33k			
R21	57.11.4183	18k			
R22	57.11.4563	56k			
R23	58.01.8502	5k	TRIM		
R24	57.11.4563	56k			
R25	57.11.4101	100			
R26	57.11.4101	100			
R27	57.11.4472	4,7k			
R28	58.01.8503	50k	TRIM		
R29	57.11.4223	22k			
R30	57.11.4333	33k			

INDI	DATE	NAME			
④		PH Philips	N National Sem.		
③		RA Raytheon			
②		TI Texas Instr.			
①		also valid for PPM with			
○	20-8-81	<i>My</i>	gain reduction meter 1.913.221		
STUDER		PEAK PROGRAMME METER	1.913.220	PAGE 1 OF 3	

INDI	DATE	NAME			
④					
③					
②					
①					
○	20-8-81	<i>My</i>			
STUDER		PEAK PROGRAMME METER	1.913.220	PAGE 2 OF 3	

INDI	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
R31	57.11.4333	33k			
R32	57.11.4103	10k			
R33	57.11.4223	22k			
R34	58.04.8103	10k	TRIM		
R35	57.11.4682	6,8k			
R36	57.11.4151	150			
R37	1.022.159.00	180	Cu-Wire	STUDER	
R38	57.11.4479	47Ω	1.913.221: 3,3Ω		
R39	57.99.0206	50Ω	PTC		
R40	57.99.0206	50Ω	PTC		
R41	58.04.7202	2k	TRIM	only 1.913.221	
R42	57.11.4104	100		only 1.913.221	
T1	1.022.218.00	1:1	Input Trafo	STUDER	
B1	51.02.0144	6V,30mA	Lamp		
B2	51.02.0144	6V, 30mA	Lamp		
B3	51.02.0144	6V,30mA	Lamp		
P1	54.14.2011		Connector		
X1C	53.03.0166		IC-Socket 8pins		

INDI	DATE	NAME			
④					
③					
②					
①					
○	20-8-81	<i>My</i>			
STUDER		PEAK PROGRAMME METER	1.913.220	PAGE 3 OF 3	